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FIG. 1A

TCGATAGGTA	CCCACTATAG	GGCAGCGGTG	GTGCACGGCC	CGGGCTGGTC	
1					50
TGGCAACTTC	AAGTGTGGGC	CTTTCAGACC	GGCATCATCA	GTGTTACGGG	
51					100
GAAGTCACTA	GGAATGCAGA	ATTGATTGAG	CACGGTGGCT	CACACCTGTA	
101					150
ATCCCAACAC	TCTGGGAGGC	CAAGGCAGGT	GGATCACTTG	TGGTCAGGAG	
151					200
TTTGAGACCA	GCCTGGCCAA	CATGGTGAAA	CCTCATCTCT	ACTAAAAATA	
201					250
CAAAAATTAG	CTGGGAATGG	TGGCACAATG	CTATAATCCC	AGTTACTCAG	
251					300
GAGGCTGAGG	CAGGAGAATC	ATTTGAACCT	GGGAGGCAGA	GGTTGCACTG	
301					350
AGCCGAGATC	ACGCCACTGC	ACTCCAGCCT	GGGTGACACA	GCGAGACTCT	
351					400
GTCTCAAAAA	AAAAAAATG	CAGAAATTCA	GGCTTCACCC	CAGACCCACT	
401					450
GCATGACTGC	ATGAGAAGCT	GCATCTTAAC	AAGATCCCTG	GTAATTCTATA	
451					500
CGCATATTAA	ATTTGGAGAT	GCACTGGCGT	AAGACCCCTC	TACTCTCTGC	
501					550
TTAGGCCCAT	GAGTTCTTCC	TTTACTGTCA	TTCTCCACTC	ACCCCAAACT	
551					600
TTGAGCCTAC	CCTTCCCACC	TTGGCGGTAA	GGACACAACC	TCCCTCACAT	
601					650
TCCTACCAGG	ACCCTAAGCT	TCCCTGGGAC	TGAGGAAGAT	AGAATAGTTC	
651					700
GTGGAGCAAA	CAGATATACA	GCAACAGTCT	CTGTACAGCT	CTCAGGCTTC	
701					750

APPROVED BY	O.G. FIC.
DRAFTSMAN	CLASS SUBMITTED

Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
TRANSCRIPTIONAL REGULATORY SEQUENCES
Inventor: De-Chao YU et al.
Application No.: 09/814,292
Docket No.: 348022001500

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FIG. 1B

TGGAAGTTCT	ACAGCCTCTC	CCGACAAAGT	ATTCCACTTT	CCACAAGTAA	800
751					
CTCTATGTGT	CTGAGTCTCA	GTTTCCACTT	TTCTCTCTCT	CTCTCTCTCT	850
801					
CAACTTTCTG	AGACAGAGTT	TCACTTAGTC	GCCCAGGCTG	GAGTGCAGGG	900
851					
GCACAATCTC	GGCTCACTGC	AACCTCCACC	TCCTGGGTTC	AAGTGTTTCT	950
901					
CCTGTCTCAG	CCTCCCGAGT	AGCTGGGATT	ACAGGCACAC	ACCACCGCGT	1000
951					
TAGTTTTTGT	ATTTTTGGTA	GAGATGGTGT	TTGCCCATAT	TGGCCAGGCT	1050
1001					
GATCTCGAAC	TCCTGACCTC	AGGTGATCOG	CCCACCTCGG	CCTCCCAAAG	1100
1051					
TGCTGGGATT	ACAGGCATGA	GCCACCACGC	CCGGCTGATC	TCTTTTCTAT	1150
1101					
TTTAATAGAG	ATCAAACCTCT	CTGTGTTGCC	TAGGCTGGTC	TTGAACCTCT	1200
1151					
GGCCTCGAGT	GATCCTCCCA	CCTTGGCCTC	CCAAAGTGTT	GAGATTACAG	1250
1201					
GCATGAGCCA	CTGTGCCTGG	CCTCAGTTCT	ACTACAAAAG	GAAGCCAGTA	1300
1251					
CCAGCTACCA	CCCAGGGTGG	CTGTAGGGCT	ACAATGGAGC	ACACAGAACC	1350
1301					
CCTACCCAGG	GCCCGGAAGA	AGCCCCGACT	CCTCTCCCCT	CCCTCTGCCC	1400
1351					
AGAACTCCTC	CGTTTCTTTC	TGATGTAGCC	CAGGGCCGGA	GGAGGCACTC	1450
1401					
AGGGAAGTTC	TGTCTCTTTT	TCATGTTATC	TTACGAGGTC	TCTTTTCTCC	1500
1451					

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 1C

ATTCTCAGTC 1501	CAACAAATGG	TGCTGCCCCA	AGGCTGACTG	TGCCCCCCCC 1550
CAACCCCTGC 1551	TGGCCAGGGT	CAATGTCTGT	CTCTCTGGTC	TCTCCAGAAG 1600
TCTTCCATGG 1601	CCACCTTCGT	CCCCACCCTC	CAGAGGAATC	TGAAACCGCA 1650
TGTGCTCCCT 1651	GGCCCCCACA	GCCCCTGCTT	CTCCAGAGC	AGCAGTACCT 1700
AAGCCTCAGT 1701	GCACTCCAAG	AATTGAAACC	CTCAGTCTGC	TGCCCCCTCC 1750
CACCAGAATG 1751	TTTCTCTCCC	ATTCTTACCC	ACTCAAGGCC	CTTTCAGTAG 1800
CCCTTGGAG 1801	TATTCTCTTC	CTACATATCA	GGGCAACTTC	CAAACATCAT 1850
ACCCTTCTGA 1851	GGGGTGGGGG	AAAGACCCCC	ACCACATCGG	GGGAGCAGTC 1900
CTCCAAGGAC 1901	TGGCCAGTCT	CCAGATGCCC	GTGCACACAG	GAACACTGCC 1950
TTATGCACGG 1951	GAGTCCCAGA	AGAAGGGGTG	ATTCTTTTCC	CCACCTTAGT 2000
TACACCATCA 2001	AGACCCAGCC	AGGGCATCCC	CCCTCCTGGC	CTGAGGGCCA 2050
GCTCCCCATC 2051	CTGAAAAAACC	TGTCTGCTCT	CCCCACCCTT	TTGAGGCTAT 2100
AGGGCCCAAG 2101	GGGCAGGTTG	GACTGGATTG	CCCTCCAGCC	CCTCCCGCCC 2150
CCAGGACAAA 2151	ATCAGCCACC	CCAGGGGCAG	GGCCTCACTT	GCCTCAGGAA 2200
CCCCAGCCTG 2201	CCAGCACCTA	TTCCACCTCC	CAGCCCAGCA 2239	

APPROVED	O.G. FIG.	
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FIG. 2A

CTCGAGGATCTCGGCCCTCTTCTGCATCCTTGTCCTAAATCATTTTCAT
1 50

ATCTTGCTAGACCTCAGTTTGAGAGAAACGAACCTTCTCATTTTCAAGTT
51 100

GAAAAAAAAAAGAGGTTCAAAGTGGCTCACTCAAAGTTACAAGCCAACAC
101 150

TCACCACTACGAGTACAATGGCCACCATTAGTGCTGGCATGCCCCAGGAG
151 200

ACAGGCATGCATATTATTCTAGATGACTGGGAGGCAGAGGGGTGGCCTAG
201 250

TGAGGTGCACTGTGGACAGATCAGGCAGATGTGGGTTCTGATCCCAATT
251 300

CCTCAGGCCGAGAATACTGTGGTTCAAGAAGGGGACAAAAGGACTGCA
301 350

GTCCGGAACAGGAGGTCCATTGTAGAGCTGACTGAGCAGAAGAGGAAAGT
351 400

GAAGAACTTCTGGGGCAAGAGCTTACCCTACTTTACAGCTTTGTGTCTT
401 450

CTTTACTCCAGGGCGTCCCTGGTACTCAGTAAATGTCTGTGGCTTGAG
451 500

GAACATATGTGTAAGGAGGAAGGAGAGGGAACCTTGAGGGAGTTAAGACTC
501 550

AAGAATCAATCAAGGAGAGGACAGCAGAGAAGACAGGGTTTGGGAGAGG
551 600

ACTCCAGACATTGGCCCTGGTTCCCTTCTTGGCCACTGTGAAACCTCCA
601 650

GAGGAAC TGAGTGCTGTGGCTTTAAATGATCTCAGCACTGTGAGTGAAGC
651 700

GCTCTGCTCAAAGAGTTATCCTCTTGCTCCTGTGCCGGGGCCTCCCCCTC
701 750

CTCTCAGCTCCCAAACCTTCTCAGCCACTGTGATGGCATAATTAGATGC
751 800

GAGAGCTCAGACCGTCAGGCTCTGCTCCAGGAACCAACCATTTTCCCAAC
801 850

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FIG. 2B

CCCAGAGAAAGGTCCTAGTGGAAAAGTGGGGGCCACTGAAGGGCTGATGG
 851 900

GGTCTGTCTCTTTCCCCCATGCTGGGTGGACTTAAAGTCTGCGATGTGTG
 900 950

TAGGGGGTAGAAGACAACAGAACCTGGGGGCTCCGGCTGGGAGCAGGAGG
 951 1000

AACTCTCACCAGACGATCTCCAAATTTACTGTGCAATGGACGATCAGGAA
 1001 1050

ACTGGTTCAGATGTAGCTTCTGATACAGTGGGTCTGAGGTAAAAACCCGAA
 1051 1100

ACTTAATTTCTTTCAAAAATTTAAAGTTGCATTTATTATTTTATATGTGT
 1101 1150

GCCCATATGTGTGCCACAGTGTCTATGTGGAGGTGAGAGGGCAAGTTGTG
 1151 1200

GGCATTGGCTCTCTCCTTTCATAATGTGGCTTCTGGGGACCAAAATGTCA
 1201 1250

GGCATGGTGGCAAGAGCTTTTACCTGTTGAGCCATCTCATGGTTTCGTAA
 1251 1300

AACTTCCTATGACGCTTACAGGTAACGCAGAGACACAGACTCACATTTGG
 1301 1350

AGTTAGCAGATGCTGTATTGGTGTAACACTCATAACAGACACACACAC
 1351 1400

ATACTCATAACACACACACACTTATCAGATGCACACACATACTCGTA
 1401 1450

TACACACAGACACACACACATGCACTCTCACATTCACATATTCATACACA
 1451 1500

TCCACACACACACTCATCCACACACAGACACACATACTCATCCACACA
 1501 1550

CACACACACACATACTCATACACACACAGACACACATACTCATACACA
 1551 1600

CACACAGACACACACATATAATCATACATACACAGACACACTCATACATG
 1601 1650

TGCACACACACACTCATCCACACACACACTCATACACACACACTCA
 1651 1700

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FIG: 2C

TACACACACACTCATACACACACACGAGGTTTTTCTCAGGCTGCCT 1701 1750

TTGGGTGGAGACTGGAAGTATTCTGTTTTTCAGCTCCTTGCGCTTTTTG 1751 1800

TCCCTTTAGATGAGATCTCCTCCTCACTTTACACACAGAAAGATCACACA 1801 1850

CGAGGGAGAACTGGCGGTGCGGAAGAGGGCTACACGGTAGGGTGTCAAGG 1851 1900

TCAGGAGATCTTCTCGGCAAGTCTCAAACCTCCACATAGCACAGTGTTTA 1901 1950

CGTGAGGATTTAGGAGGAATCAGGAAGAGGATTGGTTTTACTGCAGAGCAG 1951 2000

ACCATATAGGTCCTACTCTAAGCCCCATTGAAATTAGAAGTGAGACAGT 2001 2050

GTGGGATAAAAAGAGCAGATCTCTGGTCACATTTTTAAAGGGATATGAGG 2051 3000

GTCTGTGCCTTTAAGCCTTCCCATCTCCCTCCAATCCCCCTCACCTTC 2101 2150

CCCACCCTAACCTTCCCCAGGTTTCTGGAGGAGCAGAGTTGCGTCTTCTC 2151 2200

CCTGCCCTGCGGAGCTGCTCACTGGCTGCTCTAGAGGCTGTGCTTTGGGG 2201 2250

TCTCCATGGAAACATTAGTTGCTAAGCAACTGGAGCATCATCTGTGCTG 2251 2300

AGCTCAGGTCTTATCGAGTTCACCTAGCTGAGACACCCAGCCCCCTGCAG 2301 2350

CCACTTTGCAGTGACAAGCCTGAGTCTCAGGTTCTGCACTATAAAAAAG 2351 2400

AGTAGCCTTTTCAGGAGGGCATGCAGAGCCCCCTGGCCAGCGTCTAGAGGA 2401 2450

GAGGTGACTGAGTGGGGCCATGTCACTCGTCCATGGCTGGAGAACCTCCA 2451 2500

TCAGTCTCCCAGTTAGCCTGGGGCAGGAGAGAACCAGAGGAGCTGTGGCT 2501 2550

APPROVED	O.G. FIG.	
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Docket No.: 348022001500

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FIG. 2D

GCTGATTGGATGATTACGTACCCAATCTGTTGTCCCAGGCATCGAACCC
2551 2600

CAGAGCGACCTGCACACATGCCACCGCTGCCCCGCCCTCCACCTCCTCTG
2601 2650

CTCCTGGTTACAGGATTGTTTTGTCTTGAAGGGTTTTGTTGTTGCTACTT
2651 2700

TTTGCTTTGTTTTTTCTTTTTTAACATAAGGTTTCTCTGTGTAGCCCTAG
2701 2750

CTGTCTGGAACCTCACTCTGTAGACCAGGCTGGCCTCAAACCTCAGAAATC
2751 2800

CACCTTCCTCCCAAGTGCTGGGATTAAAGGCATTGCGACCATCGCCCAGC
2801 2850

CCCCGGTCTTGTTTCTAAGGTTTTCTGCTTTACTCGCTACCCGTTGCA
2851 2900

CAACCGCTTGCTGTCCAAGTCTGTTTGTATCTACTCCACCGCCCACTAGC
2901 2950

CTTGCTGGACTGGACCTACGTTTACCTGGAAGCCTTCACTAACTTCCCTT
2951 3000

GTCTCCACCTTCTGGAGAAATCTGAAGGCTCACACTGATACCTCCGCTT
3001 3050

CTCCCAGAGTCGCAGTTTCTTAGGCCTCAGTTAAATACCAGAATTGGATC
3051 3100

TCAGGCTCTGCTATCCCCACCCTACCTAACCAACCCCTCCTCTCCCATC
3101 3150

CTTACTAGCCAAAGCCCTTTCAACCCCTGGGGCTTTTCTACACCTACAC
3151 3200

ACCAGGGCAATTTTAGAACTCATGGCTCTCCTAGAAAAAGCCTACCTCCT
3201 3250

TGGAGACTGACCCCTCTACAGTCCAGGAGGCAGACACTCAGACAGAGGAAC
3251 3300

TCGTGCTTCAGTCGCGGAGTTCAGAAAGAGCCATACTCCCTTGCA
3301 3350

GCTAACTAAGCTGCCAGGACCCAGCCAGAGCATCCCCCTTTAGCCGAGGG
3351 3400

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
 TRANSCRIPTIONAL REGULATORY SEQUENCE
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FIG. 2E

CCAGCTCCCCAGAAATGAAAAACCTGTCTGGGGCCCCCTCCCTGAGGCTACA
 3401 3450

GTGCGCCAAGGGGCAAGTTGGACTGGATTCCCAGCAGCCCCCTCCCACTCCG
 3451 3500

AGACAAAATCAGCTACCCTGGGGCAGGCCTCATTTGGCCCCAGGAAACCCC
 3501 3550

AGCCTGTCAGCACCTGTTCCAGGATCCAGTCCCAGCGCAGTA
 3551 3592

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DRAFTSMAN	CLASS

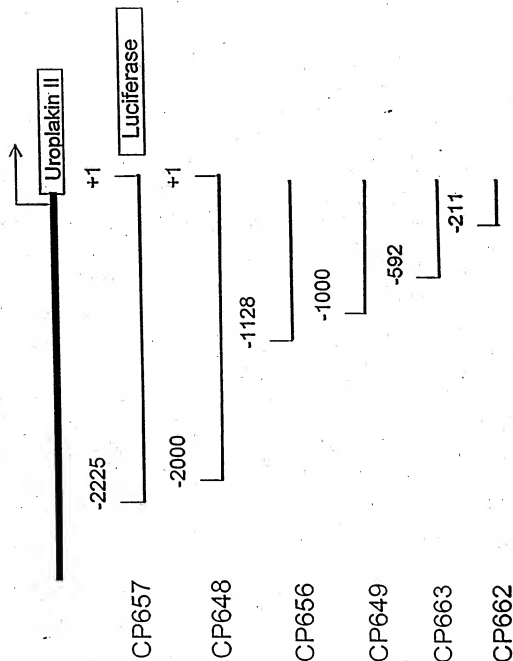
Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
TRANSCRIPTIONAL REGULATORY SEQUENCES
Inventor: Ge-Chao YU et al.
Application No.: 09/814,292
Docket No.: 348022001500

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Figure 3A



APPROVED	O.G. FIG.	
BY	CLASS	SUB.
DRAFTSMAN		

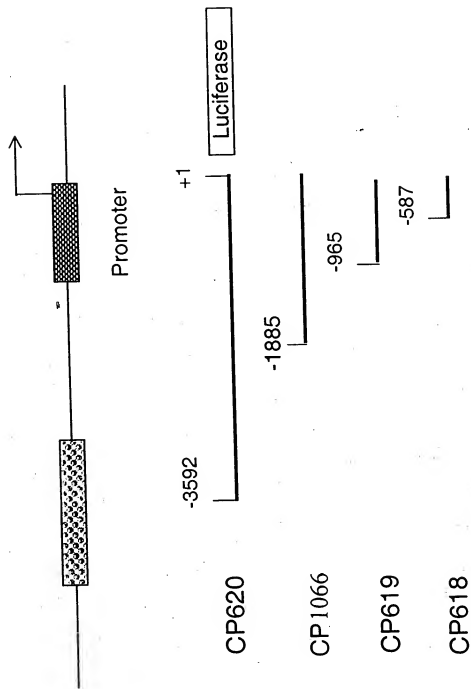
Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
 TRANSCRIPTIONAL REGULATORY SEQUENCES
 Inventor: De-Chao YU et al.
 Application No.: 09/814,292
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Figure 3B



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

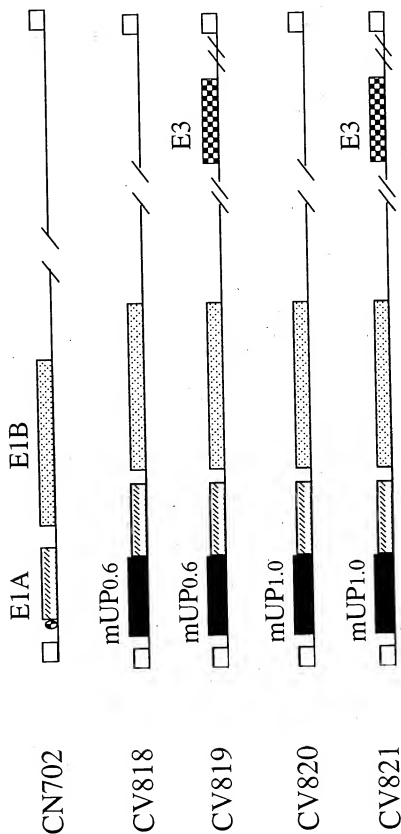
Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
 TRANSCRIPTIONAL REGULATORY SEQUENCES
 Inventor: De-Chao YU et al.
 Application No.: 09/814,292
 Docket No.: 348022001500

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Figure 4A



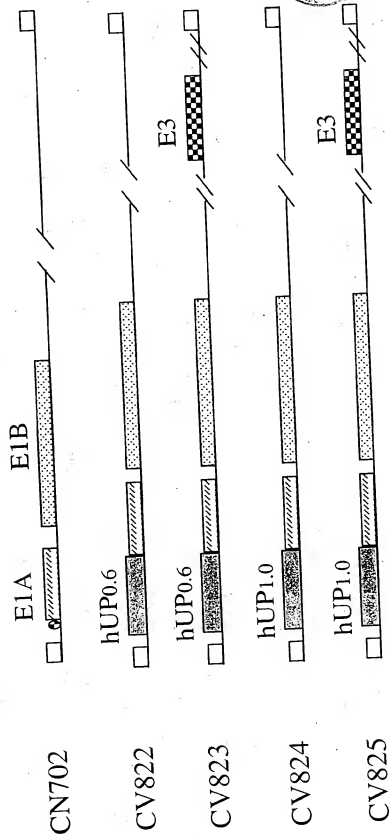
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
TRANSCRIPTIONAL REGULATORY SEQUENCES
Inventor: De-Chao YU et al.
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Docket No.: 348022001500

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Figure 4B



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
TRANSCRIPTIONAL REGULATORY SEQUENCES
Inventor: De-Chao YU et al.
Application No.: 09/814,292
Docket No.: 348022001500

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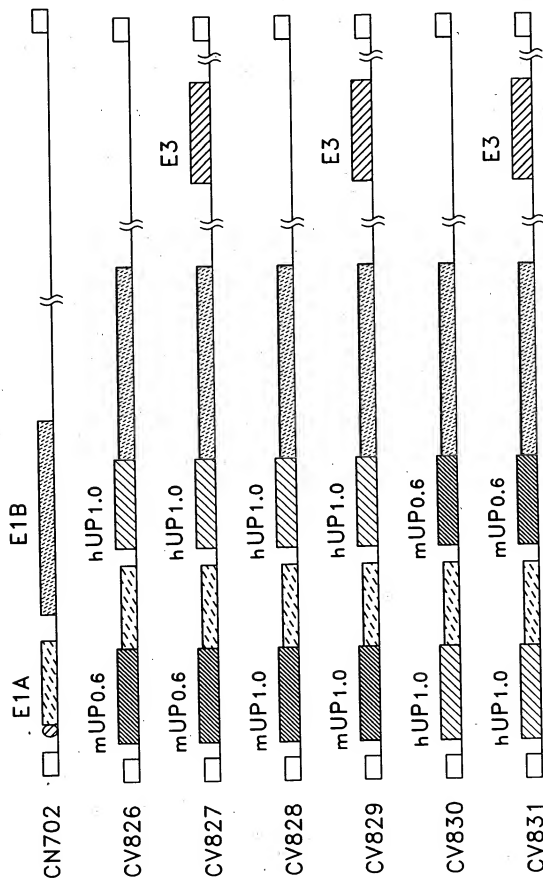


Figure 4C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
 TRANSCRIPTIONAL REGULATORY SEQUENCES
 Inventor: E-Chao YU et al.
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 Docket No.: 348022001500

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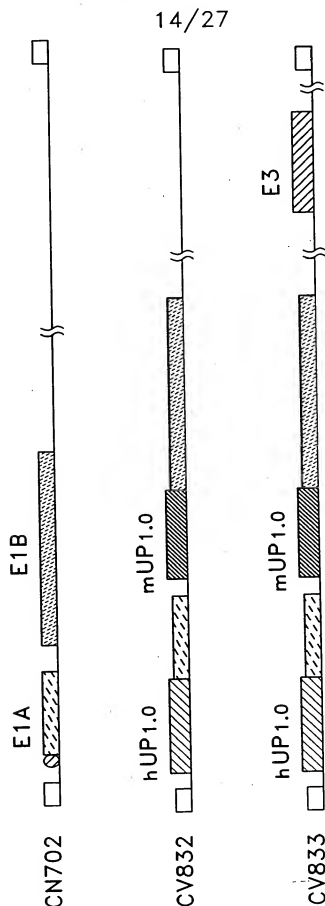
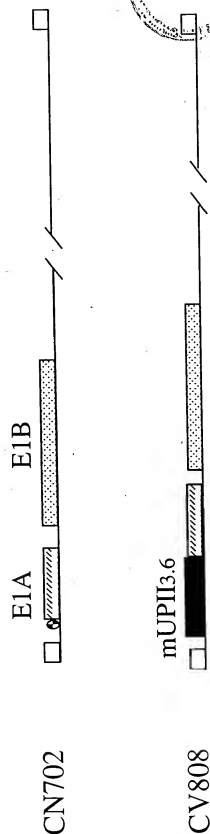


Figure 4D

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Figure 4E



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

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TRANSCRIPTIONAL REGULATORY SEQUENCES
Inventor: Jee-Chao YU et al.
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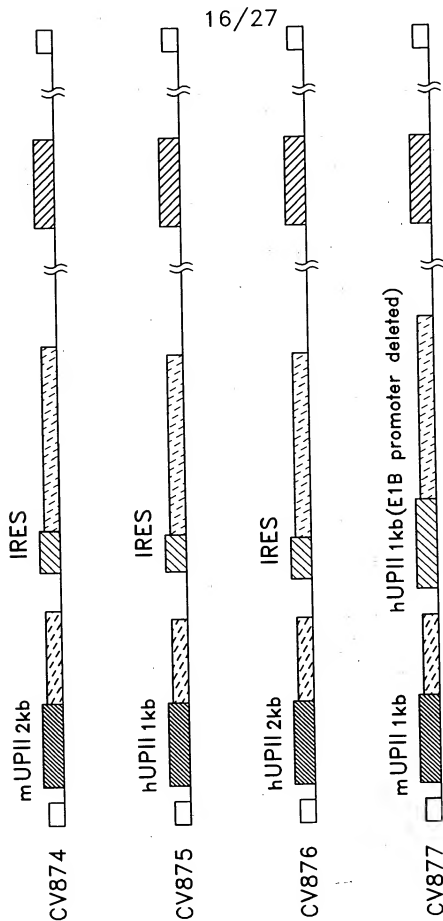


Figure 4F



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Structure of CV876, CV882 and CV884

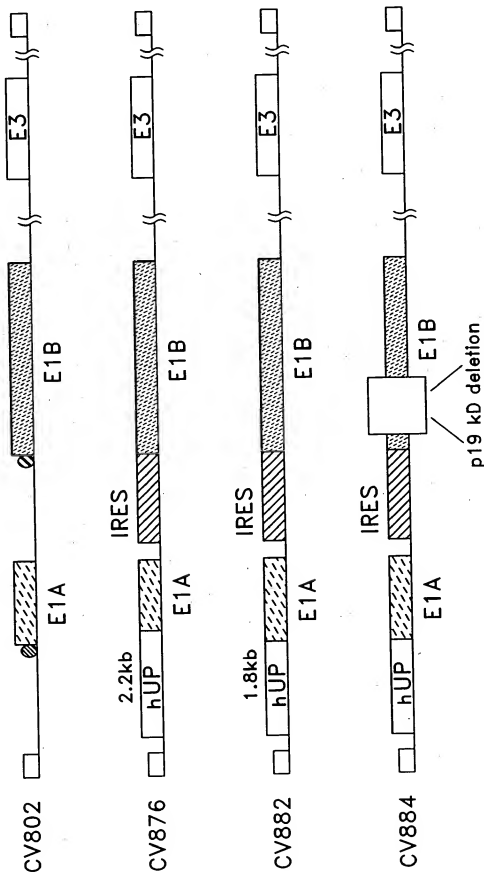


Figure 4G

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
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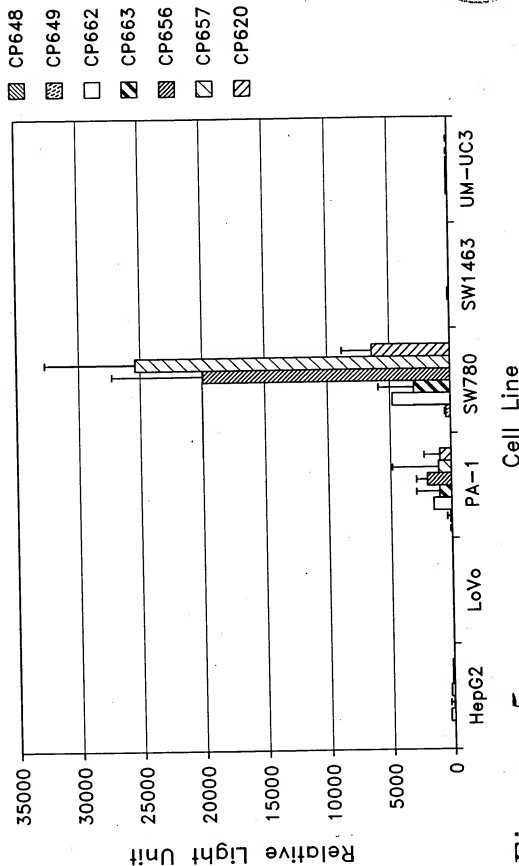


Figure 5

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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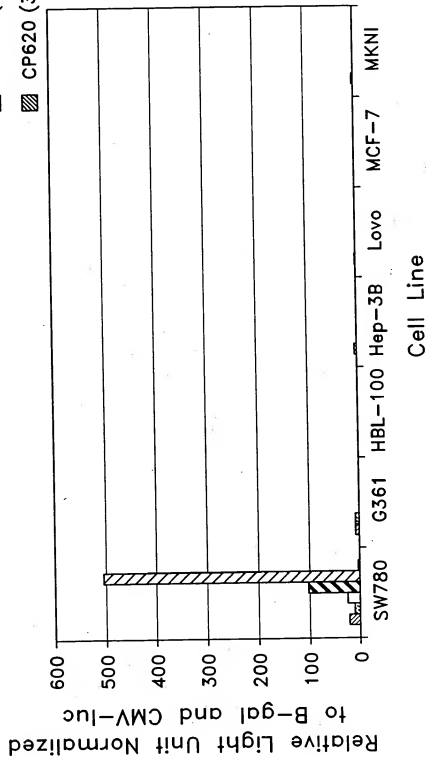


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Figure 6

Bladder Specificity of
Mouse/Human Uroplakin II Promoters
Luciferase Assay

- CP618 (0.6kb mUPII)
- ▨ CP619 (1kb mUPII)
- CP1066 (2kb mUPII)
- ▤ CP656 (1kb hUPII)
- ▩ CP657 (2.2kb hUPII)
- ▧ CP620 (3.6kb mUPII)



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

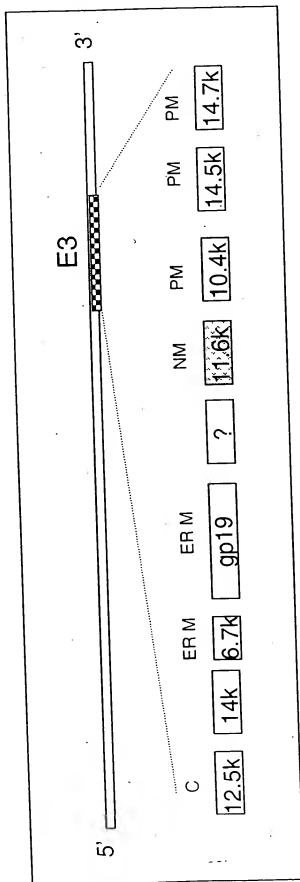
Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
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Application No.: 09/814,292
Docket No.: 348022001500

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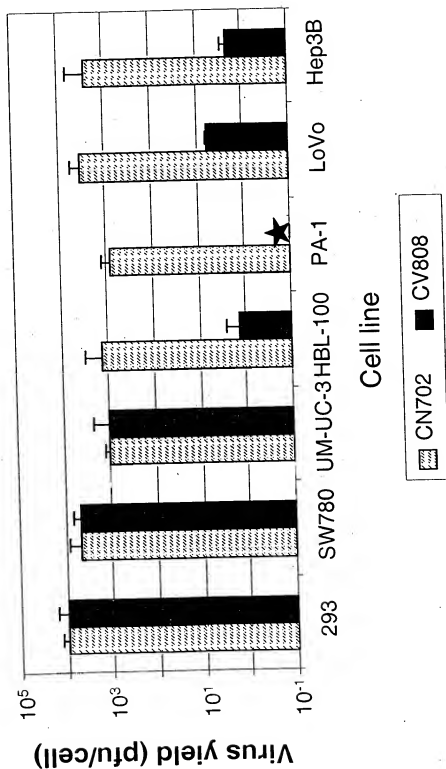
Figure 7





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Figure 8



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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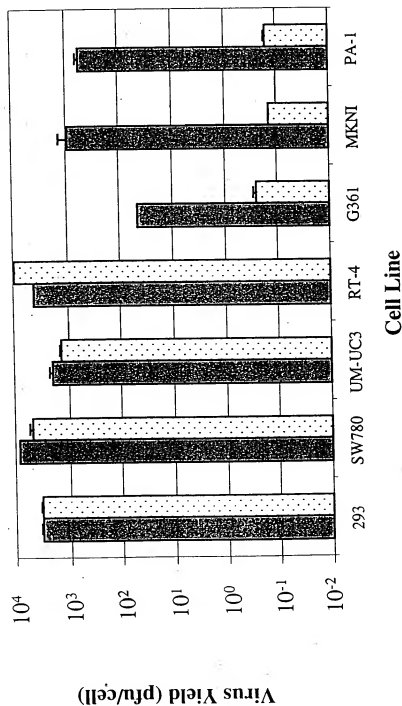
Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
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Inventor: De-Chao YU et al.
Application No.: 09/814,292
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CV802
CV829



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

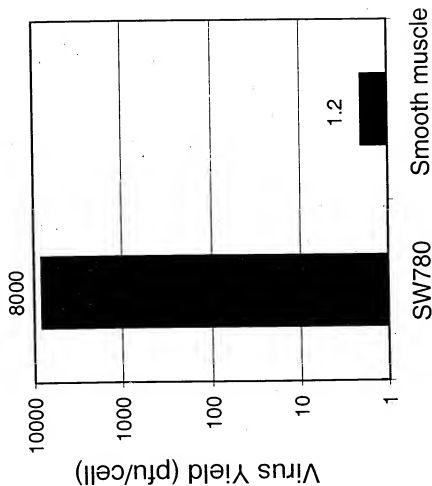
Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
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 Inventor: De-Chao YU et al.
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Figure 10



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

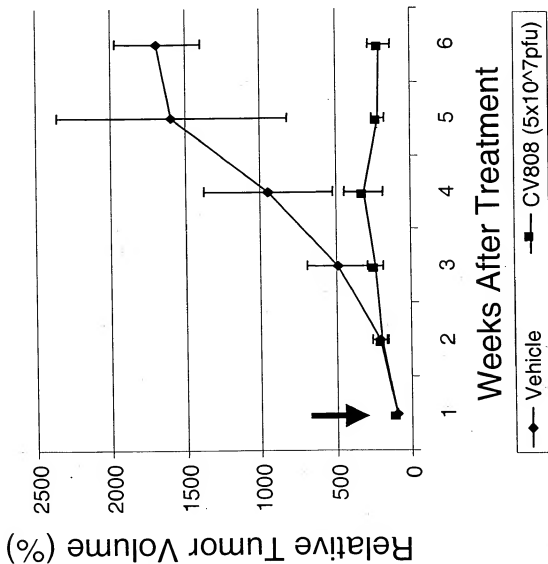
Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
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 Inventor: De-Chao YU et al.
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 Docket No.: 348022001500

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Figure 11



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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 Inventor: DeChao YU et al.
 Application No.: 09/814,292
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FIG. 12

G ATG ACC GGC TCA ACC ATC GCG CCC ACA ACG GAC TAT CGC AAC ACC
 46
 Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr
 1 5 10 15

ACT GCT ACC GGA CTA ACA TCT GCC CTA AAT TTA CCC CAA GTT CAT GCC
 94
 Thr Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Val His Ala
 20 25 30

TTT GTC AAT GAC TGG GCG AGC TTG GAC ATG TGG TGG TTT TCC ATA GCG
 142
 Phe Val Asn Asp Trp Ala Ser Leu Asp Met Trp Trp Phe Ser Ile Ala
 35 40 45

CTT ATG TTT GTT TGC CTT ATT ATT ATG TGG CTT ATT TGT TGC CTA AAG
 190
 Leu Met Phe Val Cys Leu Ile Ile Met Trp Leu Ile Cys Cys Leu Lys
 50 55 60

CGC AGA CGC GCC AGA CCC CCC ATC TAT AGG CCT ATC ATT GTG CTC AAG
 238
 Arg Arg Arg Ala Arg Pro Pro Ile Tyr Arg Pro Ile Ile Val Leu Asn
 65 70 75

CCA CAC AAT GAA AAA ATT CAT AGA TTG GAC GGT CTG AAA CCA TGT TCT
 286
 Pro His Asn Glu Lys Ile His Arg Leu Asp Gly Leu Lys Pro Cys Ser
 80 85 90 95

CTT CTT TTA CAG TAT GAT TAA
 307
 Leu Leu Leu Gln Tyr Asp
 100

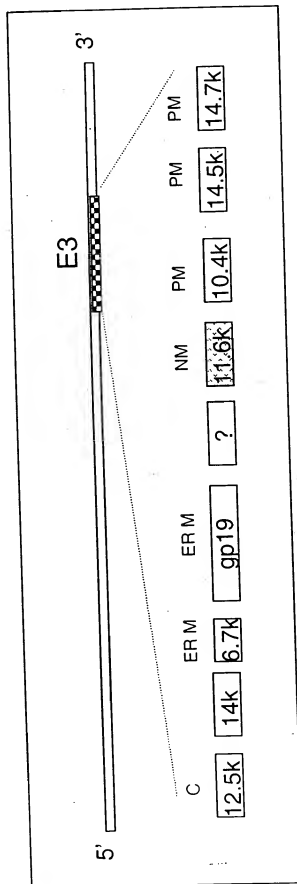
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
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Inventor: Lee-Chao YU et al.
Application No.: 09/814,292
Docket No.: 348022001500

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Figure 13



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

Title: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
TRANSCRIPTIONAL REGULATORY SEQUENCES
Inventor: Joe-Chao YU et al.
Application No.: 09/814,292
Docket No.: 348022001500

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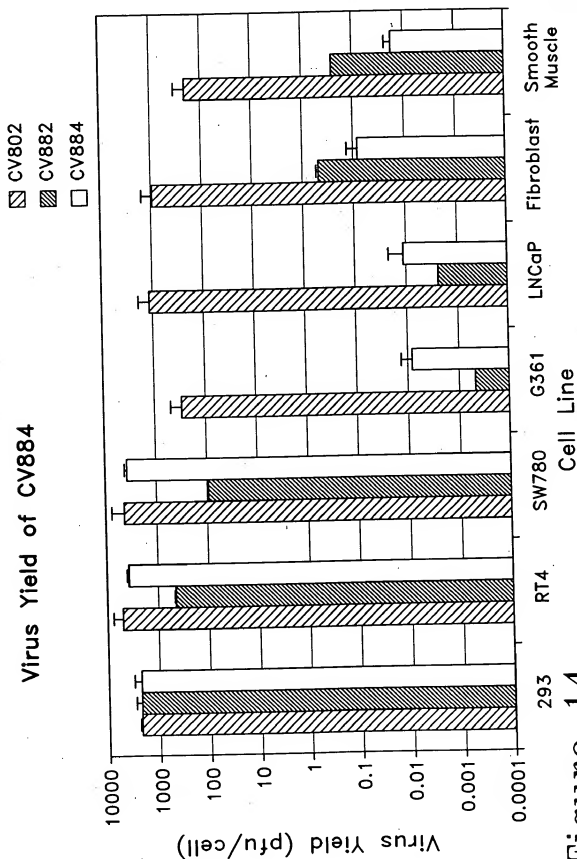


Figure 14